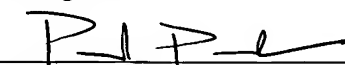


|  |  |   |
|--|--|---|
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |  | ATTORNEY'S DOCKET NUMBER<br><br>427008020US   |
| INTERNATIONAL APPLICATION NO.<br>PCT/GB2003/004429   |  | INTERNATIONAL FILING DATE<br>13 October 2003  |
| TITLE OF INVENTION<br>SEMICONDUCTOR MONITORING INSTRUMENT  |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/529959</b><br>PRIORITY DATE CLAIMED<br>11 October 2002 |
| APPLICANT(S) FOR DO/EO/US      Ladbrooke et al.  |  |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |
| 1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.<br>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.<br>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.<br>4. <input type="checkbox"/> The US has been elected (Article 31).<br>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))<br>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> has been communicated by the International Bureau.<br>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).<br>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).<br>a. <input type="checkbox"/> is attached hereto.<br>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).<br>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))<br>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> have been communicated by the International Bureau.<br>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<br>d. <input type="checkbox"/> have not been made and will not be made.<br>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).<br>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).<br>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). |  |   |
| <b>Items 11 to 20 below concern document(s) or information included:</b>   |  |   |
| 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.<br>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<br>13. <input checked="" type="checkbox"/> A preliminary amendment.<br>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.<br>15. <input type="checkbox"/> A substitute specification.<br>16. <input type="checkbox"/> A power of attorney and/or change of address letter.<br>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.<br>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).<br>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).<br>20. <input checked="" type="checkbox"/> Other items or information: Return Receipt Postcard; 7 sheets of drawings  |  |   |

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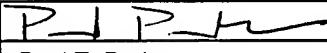
|  |              |   |            |   |              |
|--|--------------|---|------------|---|--------------|
| U.S. APPLICATION NO. <b>10/529959</b>  |              | INTERNATIONAL APPLICATION NO.<br>PCT/GB2003/004429                            |            | ATTORNEY'S DOCKET NUMBER<br>427008020US |              |
| The following fees have been submitted   |              |   |            | CALCULATIONS                            | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> Basic national fee .....\$300  |              |   |            | \$ 300.00                               |              |
| 22. <input checked="" type="checkbox"/> Examination fee  |              |   |            |   |              |
| If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) .....\$100  |              |   |            |   |              |
| All other situations .....\$200  |              |   |            | \$ 200.00                               |              |
| 23. <input checked="" type="checkbox"/> Search fee   |              |   |            |   |              |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....\$100   |              |   |            |   |              |
| International Search Report prepared and provided to the Office.....\$400  |              |   |            |   |              |
| All other situations .....\$500  |              |   |            | \$ 500.00                               |              |
| <b>TOTAL OF 21, 22 and 23 =</b>  |              |   |            | <b>\$ 1,000.00</b>                      |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |   |            |   |              |
| Total Sheets   | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |   |              |
| 26 - 100 =   | /50 =        |   | x \$250.00 |   |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).  |              |   |            | \$ 130.00                               |              |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA  | RATE       |   |              |
| Total claims   | 18 - 40 =    | x   |            | \$ 0.00                                 |              |
| Independent claims   | 2 - 6 =      | x   |            | \$ 0.00                                 |              |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable)  |              |   |            | \$                                      |              |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |            | <b>\$ 1,130.00</b>                      |              |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |              |   |            | \$                                      |              |
| <b>SUBTOTAL =</b>  |              |   |            | <b>\$ 1,130.00</b>                      |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).   |              |   |            | \$                                      |              |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |            | <b>\$ 1,130.00</b>                      |              |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |   |            | \$                                      |              |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |            | <b>\$ 1,130.00</b>                      |              |
|  |              |   |            | Amount to be refunded:                  | \$           |
|  |              |   |            | Amount to be charged:                   | \$           |
| a. <input checked="" type="checkbox"/> A check in the amount of \$ 1,130.00 to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0665. A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. |              |   |            |   |              |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.  |              |   |            |   |              |
| SEND ALL CORRESPONDENCE TO:  |              |   |            |   |              |
| <br>SIGNATURE: Paul T. Parker<br>NAME  |              |   |            |   |              |
| CUSTOMER NUMBER: 25096   |              |   |            |   |              |
| 38,264<br>REGISTRATION NUMBER  |              |   |            |   |              |

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|   |  |                          |                       |
|---|--|--------------------------|-----------------------|
| <b>Effective on 12/03/2004.</b><br><b>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b><br><b>FEE TRANSMITTAL</b><br><b>For FY 2005</b> |  | <b>Complete if Known</b> |                       |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | Not Yet Assigned      |
|   |  | Filing Date              | Concurrently Herewith |
|   |  | First Named Inventor     | Peter Ladbrooke       |
|   |  | Examiner Name            | Not Yet Assigned      |
|   |  | Art Unit                 | N/A                   |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$)    1,130.00   |  | Attorney Docket No.      | 427008020US           |

|   |  |
|---|--|
| <b>METHOD OF PAYMENT (check all that apply)</b>   |  |
| <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> None <input type="checkbox"/> Other (please identify): _____ |  |
| <input checked="" type="checkbox"/> Deposit Account    Deposit Account Number: <u>50-0665</u> Deposit Account Name: <u>Perkins Coie LLP</u>   |  |
| For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)  |  |
| <input type="checkbox"/> Charge fee(s) indicated below <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee  |  |
| <input checked="" type="checkbox"/> Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 <input checked="" type="checkbox"/> Credit any overpayments                         |  |

|   |                 |                     |                 |   |                  |                                      |                                 |
|---|-----------------|---------------------|-----------------|---|------------------|--------------------------------------|---------------------------------|
| <b>FEE CALCULATION</b>  |                 |                     |                 |   |                  |                                      |                                 |
| <b>1. BASIC FILING, SEARCH, AND EXAMINATION FEES</b>  |                 |                     |                 |   |                  |                                      |                                 |
|   | FILING FEES     |                     | SEARCH FEES     |   | EXAMINATION FEES |                                      |                                 |
|   |                 | <u>Small Entity</u> |                 | <u>Small Entity</u>                                     |                  | <u>Small Entity</u>                  |                                 |
| <b>Application Type</b>   | <b>Fee (\$)</b> | <b>Fee (\$)</b>     | <b>Fee (\$)</b> | <b>Fee (\$)</b>   | <b>Fee (\$)</b>  | <b>Fee (\$)</b>                      | <b>Fees Paid (\$)</b>           |
| Utility   | 300             | 150                 | 500             | 250   | 200              | 100                                  | 1,000.00                        |
| Design  | 200             | 100                 | 100             | 50  | 130              | 65                                   |                                 |
| Plant   | 200             | 100                 | 300             | 150   | 160              | 80                                   |                                 |
| Reissue   | 300             | 150                 | 500             | 250   | 600              | 300                                  |                                 |
| Provisional   | 200             | 100                 | 0               | 0   | 0                | 0                                    |                                 |
|   |                 |                     |                 |   |                  |                                      | <u>Small Entity</u>             |
|   |                 |                     |                 |   |                  |                                      | <b>Fee (\$)</b> <b>Fee (\$)</b> |
| Each claim over 20 (including Reissues)   |                 |                     |                 |   |                  |                                      | 50    25                        |
| Each independent claim over 3 (including Reissues)  |                 |                     |                 |   |                  |                                      | 200    100                      |
| Multiple dependent claims   |                 |                     |                 |   |                  |                                      | 360    180                      |
| <b>Total Claims</b>   |                 | <b>Extra Claims</b> |                 | <b>Fee (\$)</b>   |                  | <b>Fee Paid (\$)</b>                 |                                 |
| 18  |                 | - 40 =              |                 | x   |                  | =                                    |                                 |
| <b>Indep. Claims</b>  |                 | <b>Extra Claims</b> |                 | <b>Fee (\$)</b>   |                  | <b>Fee Paid (\$)</b>                 |                                 |
| 2   |                 | - 6 =               |                 | x   |                  | =                                    |                                 |
| <b>3. APPLICATION SIZE FEE</b><br>If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |                 |                     |                 |   |                  |                                      |                                 |
| <b>Total Sheets</b>   |                 | <b>Extra Sheets</b> |                 | <b>Number of each additional 50 or fraction thereof</b> |                  | <b>Fee (\$)</b> <b>Fee Paid (\$)</b> |                                 |
| 26  |                 | - 100 =             |                 | / 50  |                  | (round up to a whole number) x       |                                 |
| <b>4. OTHER FEE(S)</b>  |                 |                     |                 |   |                  |                                      |                                 |
| Non-English Specification, \$130 fee (no small entity discount)   |                 |                     |                 |   |                  |                                      | <b>Fees Paid (\$)</b>           |
| Other (e.g., late filing surcharge): 1617   |                 |                     |                 |   |                  |                                      | 130.00                          |

|                     |   |                                   |                |
|---------------------|---|-----------------------------------|----------------|
| <b>SUBMITTED BY</b> |   |                                   |                |
| Signature           |  | Registration No. (Attorney/Agent) | 38,264         |
| Name (Print/Type)   | Paul T. Parker  | Telephone                         | (206) 359-8000 |
|                     |   | Date                              | March 31, 2005 |

|   |   |
|---|---|
| I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV622660899US, in an envelope addressed to: MS PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below. |   |
| Dated: <u>3-31-05</u>   | Signature: <u>Vickie Hoeft</u> (Vickie Hoeft) |

10/529959

JC13 Rec'd PCT/PTO 31 MAR 2005

Application No. (if known): Not Yet Assigned

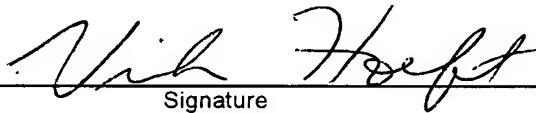
Attorney Docket No.: 427008020US

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on March 31, 2005  
Date



Signature

Vickie Hoeft

Typed or printed name of person signing Certificate

Registration Number, if applicable

(206) 359-8000

Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Fee Transmittal (2 pages)

Copy of the International application; 7 sheets of drawings

Information Disclosure Statement, PTO/SB/08 and (references)

Preliminary Amendment

Transmittal Letter to the United States Designated-Elected Office

Check in the amount of \$1,130.00